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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,254	01/21/2004	Kia Silverbrook	RRA01US	1568
24011 7590 06/15/2007 SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, 2041 AUSTRALIA			EXAMINER MARTIN, LAURA E	
			ART UNIT 2853	PAPER NUMBER
			MAIL DATE 06/15/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/760,254

Applicant(s)

SILVERBROOK, KIA

Examiner

Laura E. Martin

Art Unit

2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 April 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 2-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

Claims 17, 2 and 4-7 are rejected under 35 U.S.C. 102(B) as being anticipated by Silverbrook et al. (US 6443555).

Silverbrook et al. discloses the following claim limitations:

As per claim 17: a casing that houses a printing fluid storage (figure 11, element 6); and a pagewidth printhead mounted to the casing in fluid communication with the printing fluid storage (figure 19, element 3); wherein, the casing is configured for releasable engagement with the inkjet printer such that the printhead is adjacent the paper path when the casing is engaged with the printer, and the casing is disengageable from the printer for user removal and replacement of the cartridge (figure 13, column 5, lines 49-56).

As per claim 2: the pagewidth printhead is arranged to generate a print of at least 8 inches in width (column 2, lines 50-61).

As per claim 4: the pagewidth printhead includes at least 20,000 printing fluid delivery nozzles in fluid communication with the printing fluid storage (column 3, lines 1-10).

As per claim 5: the pagewidth printhead includes at least 30,000 printing fluid delivery nozzles in fluid communication with the printing fluid storage (column 3, lines 1-10).

As per claim 6: the printing fluid storage includes one or more storage reservoirs for storing an ink for printing (column 7, lines 5-12).

As per claim 7: one or more storage reservoirs separately store a set of colored inks sufficient for color printing (column 7, lines 5-12).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Silverbrook et al. (US 6443555) in view of Silverbrook et al. (US 6439908).

Silverbrook et al. ('555) discloses:

The apparatus of claim 1.

Silverbrook et al. ('555) does not disclose:

The printing fluid storage is housed within a body that includes an arrangement for replenishing of printing fluid from an external source.

Silverbrook et al. ('908) discloses:

The printing fluid storage is housed within a body that includes an arrangement for replenishing of printing fluid from an external source (figure 15).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the apparatus taught by Silverbrook et al. ('555) with the disclosure of Silverbrook et al. ('908) in order to provide for a simpler ink refilling method.

Claims 8 –10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Silverbrook et al. (US 6443555) in view of Silverbrook (US 6281912).

Silverbrook et al. discloses:

As per claims 8 and 9: the apparatus of claim 1.

As per claim 10: an electrical connector in electrical communication with the pagewidth printhead (figure 22, element 21), the electrical connector being disposed on the casing, wherein the electrical connector has a first electrical connector (column 7, line 59-column 8, line 7) disposed adjacent a first end of the pagewidth printhead and the corresponding connector in the inkjet printer has a first corresponding connector for mating with the first electrical connector when the casing engages the complementary recess (figure 25B, elements 46 and 52).

Silverbrook et al. does not disclose:

As per claim 8: one or more storage reservoirs also separately store an ink fixative to aid in fixing the ink delivered by the pagewidth printhead.

As per claim 9: one or more storage reservoirs separately store an infra-red ink for printing.

Silverbrook discloses:

Art Unit: 2853

As per claim 8: one or more storage reservoirs also separately store an ink fixative to aid in fixing the ink delivered by the pagewidth printhead (column 2, lines 48-50).

As per claim 9: one or more storage reservoirs separately store an infra-red ink for printing (column 2, lines 48-50).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the apparatus taught by Silverbrook et al. with the disclosure of Silverbrook in order to create a wider variety of printing applications.

Claims 11-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Silverbrook et al. (US 6443555) and Silverbrook (US 6281912), and further in view of McElfresh (US 6557976).

Silverbrook et al. discloses:

The apparatus of claim 1.

Silverbrook discloses:

As per claim 13: the cartridge includes an assembly arranged to direct air over the pagewidth printhead (figure 6, element 68).

As per claim 14: the assembly includes a filter for filtering the air prior to said air being directed over the pagewidth printhead (column 8, lines 60-63).

As per claim 15: the assembly includes an inlet for receiving air from an external source (figure 6, element 61).

As per claim 16: the external source is located in the inkjet printer (figures 4 and 5).

Silverbrook et al. and Silverbrook do not disclose:

As per claim 11: the electrical connector has a second electrical connector disposed adjacent a second end of the pagewidth printhead and the corresponding connector of the inkjet printer has a second corresponding connector of the inkjet printer for mating with the first electrical connector when the casing engages the complementary recess.

As per claim 12: power and data is transmitted to the pagewidth printhead from the inkjet printer through the first and second electrical connectors.

McElfresh et al. discloses:

As per claim 11: the electrical connector has a second electrical connector disposed adjacent a second end of the pagewidth printhead (first electrical connector: figure 2, element 68; column 5, line 56) (second electrical connector: column 6, lines 66-67, figure 5, element 68') and the corresponding connector of the inkjet printer has a second corresponding connector of the inkjet printer for mating with the first electrical connector when the casing engages the complementary recess (column 7, lines 1-3).

As per claim 12: power and data is transmitted to the pagewidth printhead from the inkjet printer through the first and second electrical connectors (column 6, lines 20-22).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the apparatus of Silverbrook et al. as modified with the disclosure of McElfresh et al. in order to facilitate electrical connections.

Response to Arguments

Applicant argues that Silverbrook does not disclose a casing for user removal and replacement. In Silverbrook, the casing housing the printing fluid (element 6) is within the printer. The printhead is mounted to the casing (element 3 is connected to element 6, shown in figure 19). The casing is configured for easy user removal and replacement (column 5, lines 49-56).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 2853

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura E. Martin whose telephone number is (571) 272-2160. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Laura E. Martin


MANISH S. SHAH
PRIMARY EXAMINER